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..ASBESTOS..

A MONTHLY MARKET JOURNAL DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

A. S. ROSSITER, *EDITOR*

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C. J. STOVER, OWNER

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The Cover

The photograph on the cover for this, the 17th Volume of "ASBESTOS", shows a general view of the plant of the Vermont Asbestos Corporation at Eden, Vt., looking south from the floor of the quarry, and gives a good idea of the surrounding country.

The corner of the building just visible in the lower right foreground is the primary crusher house, in which is located not only the primary crusher but the hoist for hauling carloads of rock along the almost level quarry floor to the primary crusher.

Directly above is the enclosed conveyor which carries the crushed rock to the quarry storage bin shown in the foreground. The building just beyond is the dryer house which contains, in addition to the two dryers, one secondary and two tertiary gyratory crushers.

Beyond this building may be seen the housing enclosing the conveyor which carries the dried rock to the dry storage bin where it is held in reserve for the mill. The mill itself is four stories high and due to the slope of the terrain only the roof and upper story may be seen in this photograph. Scarcely visible in the lower left hand portion of the photograph is the bunk house for the employees.

The altitude at the point from which this picture was taken is about 2400 feet above sea level.

Better Statistics on Asbestos

It has been quite disappointing that no further comments have been received on the articles appearing in our March and April numbers on the subject "Better Statistics on Asbestos."

Will not each producer of Asbestos turn to page 16 of our March number, and page 12 of our April number and after reading the suggestions made, write us their ideas. It doesn't matter whether you agree with the views expressed in the articles referred to or violently disagree with them—let us know your opinion. It is only by discussion and counter-discussion that any progress can be made toward uniform world statistics on Asbestos.

Sixteen Years

By C. J. Stover

In July 1919, the first issue of "ASBESTOS" was printed and, with considerable misgiving, was mailed.

Four little pages, not *any* advertising, very little news.

But G. D. Crabbs, Dr. Mattison, T. Frank Manville and many, many others, were kind enough to give us a "leg up" supported us with advertising and, best of all, with encouragement. Despite wars, famines, depressions, marriages, births and deaths, every month since 1919 has witnessed the publication of this little paper.

The writer has hosts of warm personal friends in the asbestos business but he is quite too practical to imagine "ASBESTOS" being supported on any but a cold business basis.

Nowhere, to our knowledge, can the vital statistics of this Industry be so quickly, conveniently or dependably located.

Nowhere else can the engineer, the salesman, the executive, turn to find a day to day record, condensed into a few pages, of the news and progress of the Industry, especially as to discoveries of new deposits, issuance of patents, trade marks and the like.

Nowhere else can the little personal touch given by birthday greetings be found.

This is *not* an expression of self satisfaction. We, who gather together from all over the earth the material which makes up the monthly issues of "ASBESTOS" are most humble. We relish the opportunity which has been given us to serve and daily yearn to broader and better things.

You, our readers, have helped tremendously; you *can* do much more by making "ASBESTOS" entirely *your* trade paper, thereby justifying severest criticism and most unselfish support.

"ASBESTOS" is *yours;* take advantage of the opportunity it affords of getting *your* ideas before the Asbestos Industry.

Recent Odd Uses of Asbestos

By R. L. Fine

In the November issue of "ASBESTOS" mention was made of the increased use of asbestos in various new applications. This correspondent has gathered a number of interesting items since that issue relating to such recent applications and presents them herewith.

An alcohol torch has been introduced by the Scovill Manufacturing Company of Waterbury, Connecticut, which puts asbestos wick packing to good use. The purpose of the asbestos, used in the priming cup, is as an absorbent that will aid in retarding the boiling of the alcohol in the priming cup which would probably cause an overflow and result in much confusion on the part of the operator in his efforts to extinguish the fire created by the overflow.

To start this alcohol torch the packing[1] is saturated in the priming cup, and the torch starts automatically after the cup has burned for a few minutes. When filled two-thirds full it will burn for a solid hour, pressure for continuous operation being self-generating. The Scovill torch produces a flame of 2100° F. It is filled with alcohol from the top by unscrewing the burner head and removing the complete unit from the tank. It is chromium plated and equipped with a black Japan handle.

Alcohol Torch which uses asbestos in the priming cup as an absorbent to prevent the overflow of alcohol.

The London Under-

[1] Johns-Manville No. 195 5-ply Canadax wick packing.

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ground Railway (England) is carrying on an interesting experiment with asbestos fibre in conjunction with latex (liquid rubber) for the treatment of walls to reduce noise. An asbestos-lined cabin to enclose that super-noise producer, known as the pneumatic road drill, has also been tried out with satisfactory results.

Asbestos paper or millboard and rubber are combined in the making of mats for the dining table. Complete sets of six services, in convenient and ornamental style, are being merchandised by the Reliance Rubber Company. These are known as heat-insulated dining table mats.

In the December issue of "ASBESTOS" (page 12) mention was made of an asbestos blanket used to extinguish spontaneous fires in automobiles. Now comes notice of an improved Asbestos fire blanket made by the Glasgow Asbestos Company, which is rapidly being adopted by English motion picture houses for its effectiveness and speed. It is also adaptable for factories, offices, garages, etc.

This blanket is in a container and is of ingenious construction. The blanket is rolled up within an ordinary container. At the bottom is a quick-release rubber base to which a loop or thong is attached. A quick, sharp tug on this thong permits the asbestos blanket within to appear instantly ready for use. It is of larger size than the type intended for use in automobiles and the blanket itself is of much sterner and stronger composition.

The Asbestos Fire Blanket, wrapped in its container, which is released by the mere tug of a leather thong attached to a rubber base.

The Glasgow concern recommends the use of this blanket in factories, particularly, where inflammable materials such as celluloid, flannelette, paper, wool, coir fibre, etc., are used. Officials of the company envision large sales of this asbestos device, since the several departments of various factories should be equipped with some such piece of apparatus to quickly smother a fire outbreak.

An ovenette, which bakes biscuits, pies, muffins, cakes, etc., and roasts meats to a turn consuming

AFD

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only one-quarter of the fuel required to heat an ordinary oven, is another recent item that puts asbestos to good use. Simple to operate, the Stanley Ovenette, a product of the Stanley Manufacturing Company, of Chicago, Illinois, consists of an aluminized steel base with a heat deflector, tinned wire stand and a polished aluminum hood. The heat deflector, which makes possible the economical feature stressed by the company, is lined with heavy asbestos paper specially treated. The size of this ovenette is 10 5/8" in diameter and 6 1/4" in height. This is also the size of the asbestos pad used on the heat deflector (10 5/8" diameter).

Asbestos experimenting to reduce the volume of noise in automobiles is also being carried on in both this country and abroad. Notice has already appeared in "ASBESTOS" of the "asbestos jackets" being used. These are wrapped around the grinding wheels in the transmission system, particularly the gear box, and are said to reduce noise by 50 percent.

Tests are now being conducted by the Iowa State University of Engineering with relation to the use of asbestos as a sound deadener in buildings. Various thicknesses of asbestos fibre and asbestos millboard are being inserted between walls, and reports state that a practically sound-proof room results. The theory on which the University technicians are working involves both the fire-resistant and sound-reducing qualities found in asbestos, combined with the aim of economy.

From these paragraphs it will be noted that experimentation with asbestos to find new, novel and useful applications continues steadily. Every new application means another sales outlet for suppliers of asbestos. It is to the advantage of these suppliers to co-operate closely with intelligent manufacturers in both their research and production departments. From such cooperation there develops items such as discussed above, and others that will appear in these pages from time to time.

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Asbestos Rock in Fireplaces

One of the readers of "ASBESTOS" is building a country home with several fireplaces, and has conceived the rather clever idea of imbedding among the rough stones or rocks forming the fireplace, a piece of asbestos rock.

This, of course, reminds one of the rather famous fireplace in the office of the Bell Asbestos Mine at Thetford, made *entirely* of asbestos rock.

We have suggested to the reader mentioned that each fireplace contain a piece of asbestos rock of a different kind, one having Arizona, one blue, one Canadian, and so on, and have offered to try and obtain rock specimens which are suitable for the purpose.

We hope our mention of this will not deluge the various mines with requests for rock specimens; if it does a charge will have to be made and perhaps quite a profitable business might result!

The Asbestos Institute Revived

The Code Authority of the Asbestos Industry at its meeting held on June 14th, was liquidated and the Divisional Sub-Code Authorities were instructed to do likewise.

On the same day a meeting of the Asbestos Institute Directors was held; the Asbestos Institute was revivified, and a Voluntary Agreement under the N. I. R. A. was discussed. This Voluntary Agreement was approved, a committee being appointed to present the Voluntary Agreement to the N. R. A. for the Industry.

Later the Voluntary Agreement was discussed by the various Divisions and approved with some slight changes. About 90% of the members of the Industry in the various Divisions approved proceeding with the Voluntary Agreement. The Divisions are organizing under Asbestos Institute for cooperative work under this Voluntary Agreement.

Copies of the Voluntary Agreement and of the Constitution and By-Laws of the Asbestos Institute can be obtained by application to the office of the Asbestos Institute, 22 E. 40th St., New York, Mr. Bryce Haynes, Secretary.

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Colonel C. M. Piper Appointed John-Manville Executive

Col. C. M. Piper has been appointed general manager of the automotive materials department of the Johns-Manville Corporation, succeeding J. T. Spicer, resigned, according to recent announcement by L. R. Hoff, Vice President of the Company. Col. Piper will be in charge of the sales of brake lining, clutch facing, automobile sound - deadening equipment and other automotive products.

For the past five years, Col. Piper has directed his own sales counsel organization for producers and marketers of automotive products, rubber and petroleum. For a year and a half prior to that he was sales manager for the Fisk Tire and Rubber Company, and had previously been an executive of the Goodyear Tire & Rubber Company for thirteen year.

Col. C. M. Piper

Born and raised in Indianapolis, Ind., Col. Piper has lived most of the time since near Akron, O. He served two years in the Army and at present holds the reserve commission of colonel in the field artillery.

"Johns-Manville's established policy of distributing its brake lining in the replacement market by the method of manufacturer-to-jobber-to-brake service station or garage will be continued," said Col. Piper, who last summer and fall made a complete study and analysis of the national brake lining market.

This year Johns-Manville adopted the policy of a match-your-dollar plan to aid brake dealers in advertis-

ing and promoting sales.

"We feel it is our job to aid the dealer in every way possible" said Col. Piper, "and to help him attract the motorist to his shop. This year's campaign is designed to accomplish that aim and it is our intention to continue steadily along these lines."

Asbestos Insulated Magnet Wire 40 Years Ago

The article in May "ASBESTOS" on "Asbestos Covered Magnet Wire for Motor Rewinding" brings to us a comment from a reader to the effect that asbestos covered wire for use as magnet wire was known 40 years ago.

Our informant says that a patent was granted by the U. S. Patent Office in 1895 to L. W. Downes of Providence, R. I. The patent covered a wire insulated with a flat asbestos yarn, the surplus being removed by a brushing or carding process, the wire while dampened being passed thru a swagging machine, producing a very dense, but still flexible, covering with a very thin wall. In 1902 patents for an improved process of applying the asbestos to the wire were issued to Mr. Downes. The improved process consisted in spreading the asbestos in a flocculent form on the surface of cylindrical carding wheels, the wheel being then run about the circumference of the wire thus wrapping the fibre on to the wire, so securing a very thin wall insulation. The wall thickness on these wires was standardized on the smaller wires at .005 inch, and on the larger sizes up to .009 to .010—and from that point the business developed into the great variety of wire which is manufactured with asbestos insulation.

With the issuance of this patent, production of Asbestos covered magnet wire began to take form, and a mill was erected having a capacity of about 6,000 pounds per day at that time. This was the beginning of the manufacture of this type of wire, now known to the trade as Deltabeston.

The Franklin Institute awarded the John Scott Medal to Mr. Downes for his developments in asbestos insulation.

The Cape Asbestos Company Has Satisfactory Year

Our readers will be interested in excerpts[1] from speech of Robert Walker, Chairman of the Cape Asbestos Company, at the forty second annual meeting of the Company, which was held on June 22nd, last. Mr. Walker says:

"Our sales showed a very satisfactory increase over those of the previous year. An improvement was recorded in nearly all departments of our business and was particularly marked in asbestos insulation products. Selling prices, however, continued to be low. Improvement related mainly to the home market. We find that business abroad becomes more and more difficult, owing to the restrictive effect of tariffs and quotas and, in some cases, the limitations set on the transfer of money.

"I am glad to say that the value of blue asbestos as a component in the form of yarn in the covering of electrodes for arc welding, cloth for acid filtration and insulating media, and sectional covering for high temperature insulations has been increasingly recognized.

"A signal tribute to the efficiency of our products, of which it gives us great pleasure to advise you, is that the casing insulations of the Queen Mary (H. M. Steamship) have been ordered in our blue asbestos and will be fitted by our friends, Donald Bean Insulators and Engineers, Limited. Also that our blue asbestos insulations are being incorporated in the large extension to the Klip Power Station in South Africa. We regard these two important contracts as providing striking evidence of the high quality of our manufactures.

"We have also secured important lagging contracts in which our "Caposite" insulations are employed. These insulations are made from amosite asbestos, and we believe that no insulating medium, combining to a comparable degree high efficiency, durability, lightness and purity of asbestos content, can be obtained at such moderate cost.

"While a shrinkage in turnover occurred in the sale

[1]See page 34 for balance sheet.

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of brake lining this was due entirely to the adverse conditions in the export market. The technical excellence of this product, however, enabled us to increase our sales to the home market, despite intense competition.

"Blue crude and fibre sales showed a gratifying expansion.

"Sales of amosite fibre also showed an increase. It is clear that this raw material meets a need among manufacturers in other countries as well as our own, more especially in the high temperature insulation field.

"Reviewing the year as a whole, I think you will agree that the results are satisfactory. With regard to the current year I am glad to say that the upward curve in our turnover has been maintained. It would, however, be idle to ignore the fact that our results must be governed very considerably by political and economic conditions abroad. The tendency displayed in many countries to restrict and even exclude imports and to find domestically produced substitutes, and the limitations and prohibitions set on the transference of funds, make the prospect of profitable trading in our many foreign markets daily more obscure. With this reservation I can assure you that your company is better equipped today than it ever was to benefit by any increased activity in demand for asbestos and asbestos products."

Mr. Walker goes on to comment on the balance sheet, value of property, operations in South Africa, etc.

Automobile Production

Automobile production for the month of May 1935, in the United States and Canada, totalled 385,486, i. e., 364,721 in the United States and 20,765 in Canada. For May 1934 the total for the two countries was 350,616, or 330,455 in the United States and 20,161 in Canada.

For the previous month, April 1935, the total for the two countries was 501,867; for April 1934, 371,338.

Total for the first five months of 1935 was 1,996,399, compared with the same period for 1934 of 1,475,965.

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Thermoid Elects Officers

At the last meeting of the Board of Directors of the Thermoid Rubber Company, Trenton, N. J., Fred Schluter was elected President of the Company, he had been serving previously as Executive Vice President.

Officers reelected were: C. A. Schell, General Vice President, in charge of Engineering; W D. Pardoe, Vice President in charge of Factory Management; F. A. Sharpe, Vice President in charge of the Detroit Office; Lloyd R. Leaver, Vice President in charge of Sales, Mechanical Rubber Goods Division.

There was a new executive election in the Thermoid Textile Company, where William H. Hall, Jr., was elected Vice President in charge of Factory Management. He had previously been the foreman in charge of production at that plant.

Fred Schluter, now President (formerly Executive Vice President) of the Thermoid Rubber Company.

Several appointments affecting the Automotive Replacement Division were also made. Arthur B. Dougall was made Director of Replacement Sales. Mr. Dougall has been with Thermoid for eleven years, during which time he has acted as salesman, Sales Promotion Manager and Division Sales Manager. Recently he was made President of the Canadian subsidiary, Thermoid, Ltd.

Walter E. Harvey has been made Executive Assistant to

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Messrs. Schluter and George Fabel. C. A. Klaus was appointed Sales Engineer in charge of Replacement Division products.

To fill the vacancy created by Mr. Dougall's promotion, M. J. Winkler was selected as Division Sales Manager for the New York Division. Mr. Winkler has been with Thermoid over 20 years as a salesman and District Manager.

Sales of the Thermoid Company for the month of May showed a decline of 5% compared to the month of April 1935, but were over 18% ahead of the the month of May 1934. For the first five months of 1935 sales have been over 23% in excess of the same period of 1934.

Asbestos in Use at Refineries

By F. R. Cozzens

Few commercial products have attained the popularity of gasoline. So rapid has been the advance in quality development that special grades of this fuel are now available for every industrial purpose, yet very few persons outside the industry are aware of the essential part which asbestos has played in developing the present high stage of perfection.

In the manufacture of gasoline and kindred mineral products, crude petroleum is heated under pressure in huge stills to a temperature of 200 degrees. The first effusion from the process which passes down the cooling pipes is known as basic gasoline. Then, in succession follow the distillates like naptha and kerosene, and finally the greasy sludge from which lubricants are made. The amount and grade of commercial materials derived from a tank of crude oil are determined largely by temperature, dust control, and filtration. If any of these three factors be unstable at the still, no amount of treatment will produce a top-quality product.

To safeguard results, the modern petroleum still, whether at commercial refinery or private oil lease is equipped with a double boiler, the space between inner and outer shell being packed with asbestos fibre. On

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certain models, an asbestos jacket replaces the fibre, and a mat of the same material covers the top of the tank. This permits a uniform temperature at all inside points from the furnace underneath, and the boiling oil is less affected by outside conditions.

The raw gasoline passes out the top of tank thru large cooling coils which are submerged in water. These pipes are heavily coated with asbestos paint, and all connections are sealed with tape and cement in which asbestos fibre is an essential ingredient. The cooling coils terminate in steel drums where the gasoline undergoes a delicate process of filtration. This process must be carried out in a dust free atmosphere, and asbestos cloth and curtains are regular equipment. Asbestos fibre and saw dust are usually spread on the floor. The finished product is finally lifted thru rubberized tubing by pumps fitted with asbestos gaskets to storage vats, which are also protected by asbestos paints. The various distillates follow much the same process, and asbestos cloth filters are used in the screening of lubricants.

In the refining of petroleum products, the fire risk is especially great, and asbestos clothing is common among the workers. In enclosed refineries, curtains and mats are arranged to close off compartments where explosive fumes are unusually dense.

Besides the direct contribution to gasoline quality, asbestos products reduce refining costs as much as thirty per cent. Less fuel is required to heat the stills, and fewer hours are necessary to complete the job. Repeated tests have shown that all asbestos materials stand up splendidly under the wear and tear of refinery operation, and in case of inside packings, gaskets, and mats, there is but little damage from sludge or oil residue. Replacement parts are needed less frequently, and owing to the insulating properties of asbestos, the same equipment can be kept in action at all seasons.

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ASBESTOS
MARKET CONDITIONS

General Business.

The National City Bank letter for July reports business during June to have been "reassuring," especially in view of the fears expressed at the beginning of the month that the invalidation of N. R. A. codes might lead to a period of disturbance in prices and wages and therefore of general trade unsettlement. The letter goes on to say:

"Happily these apprehensions have proved to have little foundation. The evidence is overwhelmingly to the effect that the industries intend to abide by the code wage scales as long as they can pay them, and the fear of a general or disorderly breakdown in the price structure has been relieved accordingly.

"Undoubtedly the suspension of codes has made merchants cautious. Their general inclination is to give the markets all the time possible to settle down. However, June is normally a slow month in the wholesale trade and factory sales since Summer orders have been placed and Fall buying is hardly expected before the middle of July. Hence there is reason to think that the dullness in the merchandise markets is due as much to ordinary seasonal influences as to uncertainties growing out of the N. R. A. decision."

Asbestos. Raw Material.

The importation of Raw Asbestos is a good barometer of trade. When you see buyers purchasing Raw Asbestos more liberally it is because trade is improving. Last month has shown marked increase in importations of raw asbestos into the United States of America from all sources, especially from South Africa and Cyprus.

The Cyprus Asbestos Mines have greatly increased their output for the past six months and are now offering in all markets a new crudy shingle fibre of excellent quality to compete with Russian asbestos.

South African White Amosite is also finding an increased market here.

Canadian Asbestos Mines are doing better now than

in the past three years and prices are stabilized. What trade the Canadian Mines are losing in Europe due to restrictions of importations is being offset by the increased buying from the United States of America and Japan.

Asbestos. Manufactured Goods.

Textiles. Latest reports indicate a unanimous intention on the part of textile manufacturers to operate under such a form of Voluntary Agreement as may be approved by Washington. Such agreement would cover hours, wages, child labor, publication to the entire trade of prices, terms and conditions and elimination of all "unfair" trade practices heretofore forbidden by various Federal Laws. Demand continues fair with prices firm.

Insulation. High Pressure. Current reports have it that the steel industry is running thirty-nine percent capacity. High pressure insulations are at just about that level. Prices are always firm under patent law procedure. On present volume no profits are possible.

Insulation. Low Pressure. Demand is very slight in this market, partly due to the season, and partly because prices at present have a tendency downward.

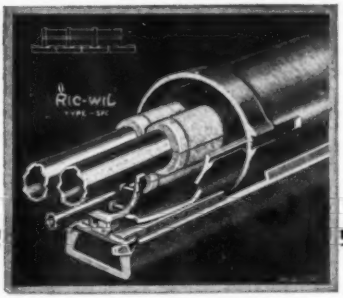
Paper and Millboard. Here also demand is light; prices, however, are holding firm.

Asbestos-Cement Products. The demand for asbestos-cement shingles continues to be satisfactory and, despite the discontinuance of N. R. A., there is no indication of any change in market conditions. Asbestos-cement shingles for roofing purposes are holding their own with a slight gain over last year and the year before; in the siding field, however, there has been a very great increase in volume.

The demand for corrugated and flat sheets for industrial purposes, as well as other types of asbestos-cement products such as wallboard, wall tile and marbleized continues to be quite satisfactory to the producers.

The above represent the opinions of men very closely in touch with the various markets. We welcome all comments.

The Ric-wiL Company is not in the contracting business, and has no subsidiaries in competition with you.



Besides various designs of standard Title Conduit —Ric-wiL makes two Heavy Duty Types—Super-Strength Tile and also Cast Iron, providing great physical strength for supporting traffic loads.

Ric-wiL Conduit is Fundamentally Right

ADEQUATE underdrainage is at the *foundation* of any correctly engineered conduit system for underground steam lines. One important feature of Ric-wiL conduit is an *external* drain which functions under practically any conditions to carry off moisture and keep both pipes and insulation dry. With its wide bearing surface, this under-drain is a rigid foundation carrying both conduit and pipes and keeping them in alignment and also eliminating special construction on the job.

Furthermore, Ric-wiL has a minimum number of pieces to handle and joints to cement, which reduces labor time. Top and bottom sections are alike, and the whole assembly is practically foolproof. Any pipe covering you choose may be incorporated in a Ric-wiL installation (although Ric-wiL Waterproof Asbestos Dry-paC is recommended for low cost and dependable results.) Several Ric-wiL types enable you to meet any conditions you encounter. Installation instructions are furnished and, if desired, engineering supervision. Ric-wiL protects you and sees the job through to a successful conclusion. Write for complete Bulletin 32.

The Ric-wiL Co., 1562 Union Trust Bldg., Cleveland, O.
New York San Francisco Chicago
Agents in principal cities

REG. U. S. PAT. OFF.

RIC-WIL

CONDUIT SYSTEMS FOR
UNDERGROUND STEAM PIPES

CONTRACTORS AND DISTRIBUTORS PAGE

The Construction Industry, which is the second largest of the nation's business groups, is disbanding its Code Authority and setting up a trade practice council to write competitive principles as a basis for voluntary codes for local organizations and various branches of the Industry.

The Construction League, an affiliation of architects, contractors and materials suppliers trade associations, claims to represent 200,000 employers and 4,000,000 workers in normal periods of construction.

"If," says one of our readers, an insulation contractor, "there was ever a time when a contractor needed guidance and help thru a strange and uncertain period, this is it." And this same reader suggests that the pages of "ASBESTOS" would be the best and most logical place to find such help and guidance. The Associations, directly or indirectly connected with the insulation contracting industry, should see to it that our pages contain inspiration and helpful suggestions for the insulation contractor.

BUILDING

Residential building awards continue to show encouraging improvement over the totals for 1934; the volume reported in the 37 eastern states during the initial half of June, amounting to $25,779,200, almost equaled the total reported for the full month of June 1934. "Coming on top of a substantial improvement in May the current gain assumes even greater importance," says L. Seth Schnitman, Chief Statistician, F. W. Dodge Corporation. The May residential contract total was about 6 per cent greater than in April and about 80 per cent ahead of the residential volume recorded for May, 1934.

Writing in the July Architectural Record, Mr. Schnitman states: "Because of continued expansion in activity in private as distinguished from public undertakings, the May contract total for all classes of construction was the largest thus far recorded for any month of 1935. Total construction awards in the 37 eastern states during May amounted to $126,718,600 as compared with $124,020,000 for April and $134,363,700 for May 1934. Of the May 1935 total, residential building amounted to

$44,901,500 or about 35 per cent. In April the residential total was $42,202,800 while in May of last year residential awards were only $24,840,200, or less than 20 per cent of all construction."

For the initial half of June, the F. W. Dodge Corporation reported non-residential building contracts of $22,292,200 as against $21,541,000 for the corresponding period of 1934; civil engineering projects undertaken during the first half of June totaled $18,466,800, as against $28,705,300 for the like period of last year. The figures for contracts covering all types of construction in the 37 eastern states amounted to $66,538,200 for the first half of June, an increase of about 5 per cent over the total for the like period of last year.

For the elapsed portion of 1935 thru June 15, total construction contracts amounted to $615,038,300 as against $790,574,900 for the corresponding portion of 1934. Of the major branches of the industry, only residential building was able to show a cumulative contract volume in excess of that recorded for 1934.

For residential building, contracts since the beginning of 1935 in the 37 eastern states amounted to $184,119,900, a gain of almost 60 per cent over the total of only $118,464,800 for the period from January 1 through June 15, 1934.

Bavaria Has Deposit of Asbestos

Deposits of asbestos are reported to have been discovered at Hohen Bogen, near Rimbach, in the Bavarian Forest. The deposits are said to be fairly large, and while the asbestos is not of the spinning variety it may find use as micro-asbestos. This according to report of Vice Consul C. T. Zawadski, Berlin, and published by the U. S. Department of Commerce in Foreign Trade Notes of June 27th.

Asbestos Quarry In France

Plans have been made to open an asbestos quarry in the Chateau-Ville-Vieille-et-Chateau-Queyras commune in the Guil valley, France. The quarry will be at an altitude of over 2,000 meters. This according to note which appears in the May 27th issue of Foreign Trade Notes published by the U. S. Bureau of Foreign and Domestic Commerce.

ASBESTOS

PRODUCTION STATISTICS

Africa (Rhodesia)

(Statistics published by Rhodesia Chamber of Mines)

	April 1935 Tons (2000 lbs.)	Value
Bulawayo District		
Nil Desperandum (Afr. Asb. Mng. Co. Ltd.)	272.50	£6,886 7 ..
Shabanie (Rho. & Gen. Asb. Corp Ltd.)	1,589.30	43,363 7 2
Victoria District		
King & Gath's (Rho. & Gen. Asb. Corp. Ltd.)	583.05	8,132 7 8
	2,444.85	£58,382 1 10
April 1934	*3,263.93*	*£40,799 1 3*

Canada.

(Statistics published by Bureau of Mines, Province of Quebec)

	April 1934 Tons (2000 lbs.)	April 1935 Tons (2000 lbs.)
Fibre	10,611	14,702
	May 1934 Tons (2000 lbs.)	May 1935 Tons (2000 lbs.)
Fibre	13,171	18,562

In our May number we mentioned a sale made "once upon a time" of 30 tons of Crude No. 1 Asbestos at $3,250 per ton. Another reader now writes us that they *bought* 10 tons during the war at approximately the same price and *were expected to be grateful* that they could get it at that price!

That the United States business world in general approved of N. R. A. and believed that it had rendered a real service to business is proven by the fact that voluntary agreements have almost deluged the new NRA before its new Acting Administrator, James L. O'Neill has had time to work out plans for the handling of such agreements.

IMPORTS AND EXPORTS

Imports Into U. S. A.

(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos.

	April 1934 Tons (2240 lbs.)	April 1935 Tons (2240 lbs.)
Africa (Br. South)	.....	364
Canada	7,749	9,400
Cyprus, Malta & Gozo	.....	580
Italy	.....	52
Soviet Union (Russia)	40	.....
United Kingdom	.....	20
	7,789	10,416
Value	$233,970	$368,031
Tabulation of Grades—		
Crude (Africa)	.....	364
Crude (Canada)	59	91
Crude (Soviet Union)	40	.....
Crude (United Kingdom)	.....	20
Mill Fibre (Canada)	3,016	3,305
Lower Grades (Canada)	4,674	6,004
Lower Grades (Cyprus, Malta & Gozo)	.....	580
Lower Grades (Italy)	.....	52
	7,789	10,416

Manufactured Asbestos Goods

	April 1934 Value	April 1935 Value
Austria	$ 708	$1,960
Belgium	3,666	1,745
Germany	3,367	1,696
United Kingdom	.....	8,666
	$7,741	$14,067

Exports from U. S. A.

Exports of unmanufactured asbestos during the month of April 1935 amounted to 43 tons, valued at $3,374; compared with 214 tons, valued at $13,706 in April 1934.

ASBESTOS

Exports of Manufactured Asbestos Goods:

	April 1934		April 1935	
	Pounds	Value	Pounds	Value
Paper, Mlbd. & Rlbd.	65,998	$7,640	127,680	$14,714
Pipe Covering and Cement	142,204	8,263	178,596	10,811
Textiles, Yarn & Packing	107,918	49,840	127,808	55,178
Brake Lining—				
Molded and semi-molded	.....	42,554	.....	64,017
Not molded	190,283[1]	29,532	141,904[1]	22,917
Magnesia and Mfrs. of	241,032	16,417	139,131	10,359
Asbestos Roofing	1,027[2]	5,454	919[2]	3,823
Other Manufactures	83,613	9,453	148,309	11,761

[1]Lin. ft. [2]Sqs.

Imports and Exports by England.

Imports of Raw Material

	May 1934		May 1935	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
From Africa (Rhodesia)	1,222	£22,677	946	£23,550
From Africa (U. of S.)	149	4,210	1,149	13,952
From Austria	20	138	.....	.....
From Canada	399	4,048	743	9,801
From Cyprus	132	2,400	.....	.....
From Finland	11	75	.....	.....
From Germany	1	12	.....	.....
From Italy	..	....	7	312
From Russia (Soviet Union)	206	3,596	133	2,626
From U. S. of America	40	560	3	40
	2,180	£37,716	2,981	£49,381

Exports of Asbestos Manufactures:

	May 1934		May 1935	
	Cwts.	Value	Cwts.	Value
To Irish Free State	6,488	£4,801	5,954	£4,910
To British India	4,231	7,667	2,670	7,253
To Australia	1,085	6,610	930	4,316
To Other British Countries	7,954	17,449	17,639	22,958
To Netherlands	1,610	3,831	1,112	4,020
To Belgium	728	3,475	578	3,527
To France	344	2,103	452	2,674
To Italy	364	4,287	852	6,822
To Other Foreign Countries	7,087	26,268	7,434	27,013
	29,891	£76,491	37,621	£83,493

Exports of Raw Asbestos from Canada.

(Figures by Dominion Bureau of Statistics)

	May 1934		May 1935	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	240	$ 12,828	820	$ 48,947
United States	4,378	188,964	4,418	239,104
Argentina	.....	.....	.....	13
Australia	126	6,230	124	6,160
Belgium	80	4,375	440	22,718
Dutch East Indies	.....	.....	3	150
France	426	26,750	519	34,929
Germany	1,075	92,798	852	61,957
Italy	50	3,630	280	24,522
Japan	255	9,310	235	9,094
Netherlands	137	4,453	278	17,201
Poland	.....	.....	20	1,800
Portugal	.....	.....	20	1,538
Spain	.....	.....	34	1,791
	6,767	$349,338	8,043	$469,924
Sand and Waste—				
United Kingdom	220	4,607	455	9,330
United States	4,615	69,394	7,071	117,657
Australia	.....	.....	1	22
Belgium	80	1,158	131	2,372
France	120	2,460	90	1,716
Germany	607	12,233	341	6,779
Japan	33	446	.....	.....
Netherlands	191	3,982	.....	.....
	5,866	94,280	8,089	137,876
	12,633	$443,618	16,132	$607,800

ASBESTOS STOCK QUOTATIONS

			June 1935		
	Par.	Div.	Low	High	Last
Asbestos Corpn. (Com.) New	np	–	11	13⅝	13⅝
Carey (Com.)	100	–	No Sales		
Carey (Pfd.)	100	6	82	82	82
Certainteed (Com.)	np	–	4¼	5	4¾
Certainteed (Pfd.)	100	7	26	30½	30
Garlock Packing (Com.)	np	–	25¾	28½	26⅜
Johns-Manville (Com.)	np	–	44	53⅞	52
Johns-Manville (Pfd.)	100	7	118¼	125	125
Raybestos-Manhattan (Com.)	np	1.00	17¼	19	18¼
Ruberoid (Com.)	np	1	51¼	58	58
Thermoid (Com.)	np	–	4	5	4⅜
Thermoid (Pfd.)	100	–	30	33¾	30

NEWS OF THE INDUSTRY

Birthdays. The list of birthdays of executives in the Asbestos Industry during the next thirty days contains the following. Thomas L. Gatke, President, Gatke Corporation, Chicago, Ill., July 16th; M. T. Rhodes, John M. Watt's Sons, Philadelphia, July 21st; George R. Weber, General Manager, United States Asbestos Division, (and Chairman Textile Division, Asbestos Institute) Manheim, Pa., July 25th; E. H. Pierce, Secretary, Plant Rubber & Asbestos Works, July 27th; S. R. Zimmerman, President, United States Asbestos Division, Manheim, Pa., August 1st; William G. Kitchen, President, Allbestos Corporation, Germantown, Phila., August 2nd; J. A. Whittaker, Secretary-Treasurer, Crandall Packing Co., Palmyra, N. Y., August 6th; A. P. Keasbey, President, Robert A. Keasbey Co., New York City, August 6th; Paul C. Collopy, President, Acme Asbestos Covering & Flooring Co., Chicago, Ill., August 8th; Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11th; O. W. Trumbull, Production Manager, Asbestos Textile Co., North Brookfield, Mass., August 12th; to all of which gentlemen we extend congratulations and best wishes.

Allbestos Corporation has entered upon an extensive merchandising campaign in the promotion of its King Pin Brake Lining. In order to take care of the expansion, L. A. Bosworth has been advanced to assume the duties of Treasurer and General Manager of the Company, and Maurice R. Krader will assume the duties of Sales Manager.

Mr. Krader received his early training selling radio and as an important executive of two of the largest radio manufacturers in America. His experience as a merchandising consultant in the automotive field and as a successful car dealer brings to Allbestos Corporation qualities that ensure satisfaction to all jobbers. Mr. Krader is well known in the jobbing and automotive markets and his past success and record justifies this promotion.

Thermoid Company of Trenton, N. J., announces the appointment of E. R. Ross to their Detroit Office, his duties embracing sales promotional, engineering and development work on friction materials and on brake linings in particular. Mr. Ross has had fifteen years experience in the automotive industry. He has been connected at various times with Warner Gear, General Motors Truck, Raybestos, Gatke and Asbestos Textile Company, having held the position of Assistant Chief Engineer in the last three organizations.

D. P. Allen is now connected with the carpet sales division office in Detroit. Mr. Allen has also been in the automotive field for some time, having previously been associated with Wagner

Electric and Lea Fabrics. Before being assigned to the Detroit Office, he spent six months in preparation and research in the factory at the home office in Trenton.

The Cape Asbestos Company, Limited. The 42nd Ordinary General Meeting[1] of the Cape Asbestos Company, Limited, was held on June 21st, 1935. Copy of the balance sheet for the year ending December 31st, 1934 follows:

ASSETS

	£	s	d
Cash at Bankers on Deposit and Current Accounts and Cash in hand	15,937	19	8
British Government Securities at or under market price on 31st Dec. 1934	65,332	16	6
Investments in other Companies at cost, less amounts written off	5,452	0	8
Bills Receivable	7,749	0	5
Sundry Debtors, less Reserves	40,593	10	9
Amounts Due by Subsidiary Companies	35,478	7	8
Holdings in Subsidiary Companies at cost, less amounts written off	45,364	4	11
Freehold Land and Factory at Barking at cost, less depre.	44,743	6	5
Freehold Land and Factory at Turin at cost, less depre.	21,455	3	0
Asbestos Estates in South Africa at cost, less depre.	40,050	11	4
Machinery, Plant, Buildings and Furniture at cost, less depre.	23,373	5	8
Stock of Crude and Manufactured Asbestos and Sundry Stores in Great Britain, South Africa, in transit and with agents	120,320	18	0
	£465,851	5	0

LIABILITIES

		£	s	d
Capital Account				
Authorized	150,000 Ordinary Shares of £1 ea.			
	150,000 Cum. 5% Part Pref. £1 ea.			
Issued	125,000 Ordinary Shares of £1 ea.	125,000	0	0
	125,000 Cum. 5% Part Pref. £1 ea.	125,000	0	0
Reserve Fund		135,000	0	0
Employees' Benefit Fund		9,801	1	8
First Mortgages and Purchase consideration payable on property in South Africa		5,340	15	8
Sundry Creditors and Bills Payable		18,475	2	6
Provision for Contingencies		5,992	3	2
Liability Under Staff Pension Scheme		5,260	10	0
Profit and Loss Account:				
Balance brought forward from last year		10,478	7	6
Add: Profit for the year 1934		25,503	4	6
		£465,851	5	0

Profit for the year 1934 ,as above) was £25,503 4s 6d; compared with £21,877 11s 1d in 1933.

The Directors, at the meeting held on June 22nd recommended a dividend at the rate of 6% per annum on the Ordinary Shares, which carries with it under the terms of issue of the 5 per cent. Cumulative Preference shares a similar dividend to the Preference shareholders. After allocating the sum of £2,000 to the Employees' Benefit fund, there remains a balance to be carried forward of £12,731.

[1]See page 14 for excerpts from Chairman's address.

The Cape Asbestos Co Limited

Morley House 26-30 Holborn Viaduct London E.C.1

Factory, Barking, Essex

BLUE ASBESTOS

The World's largest producers of Blue Crocidolite invite your inquiries on their "Cape" quality. Unexcelled for:-

TEXTILES & PACKINGS

Yarns, Cloths and Packings made from Blue Asbestos are Acid-Resisting, of great strength and stand high temperatures.

ASBESTOS-CEMENT

Blue Asbestos, with its natural affinity for cement, is the ideal material in all wet processes of Asbestos Cement Manufacture. It speeds production through quicker drying and its natural "roughness".

ELECTRIC WELDING

In the form of Yarn, fibre or powder Blue Asbestos is the ideal flux for electric arc Welding.

We are suppliers of blue yarns, cloths, millboard, rope and processed fibres.

AMOSITE

Amosite Fibre owing to its great length, bulkiness and cheapness is unexcelled alone or in combination with other fibres for:-

85% MAGNESIA INSULATION

Great success has been achieved with our latest specialty:-

100% AMOSITE INSULATION

AGENTS:

United States and Possessions
ARNOLD W. KOEHLER, Jr.
369 Lexington Ave., NEW YORK CITY
Telephone: Caledonia 5-4044

ASBESTOS

Turner & Newall, Ltd., has declared an interim ordiniary dividend of 2½% the same as a year ago. Last year's final distribution of 7½% increased the total for the year from 5% to 10%. The directors state that the improved conditions which obtained during the last financial year continue, and the current year's trading shows a slight advance on that of last year.—India Rubber Journal.

Magnesia-Asbestos Insulation Co., Inc., is the new corporate name of the former Keasbey-Mattison Construction Company of N. Y., Inc. No change has been made in the personnel or the financial structure of the corporation. E. C. Nankervis is President of the concern. The company is a distributor of magnesia and asbestos products for the Ruberoid Company.

Asbestos Covering & Roofing Company of Washington, D. C., Distributors for the Philip Carey Company, announce the association with their company of Robert W. King, formerly with the Philip Carey Company of Philadelphia.

"The Bass and the Minnow" is a very clever and attractive booklet, recently published by the Rockbestos Products Corporation to reach a certain class of customer in a somewhat out-of-the-ordinary way. The booklet, altho endowed with a somewhat whimsical title, contains a great deal of real information concerning Rockbestos insulated wire.

The India Rubber Journal has recently published the following articles on asbestos subjects: Asbestos Used in Ship Construction in its June 1st number; Asbestos Used at Tramway Depots in the June 8th number; and Asbestos for Modern Fire-station Work in the June 15th number.

The Durwyllan Company, Paterson, N. J., manufacturers of Triplewear Brake Linings, plan to change the name of the company to Triplewear Brake Linings Corporation. The change is being made merely for merchandising purposes and there will be no change in the company structure

The Beldam Asbestos Company, Ltd., Lascar Works, Hounslow, England, has connected with it the Beldam Asbestos Social Club. Recently the very attractive club rooms were enlarged the opening ceremony being performed by E. A. Beldam. The Club has 100 members and offers facilities for all games and amusements, a full-sized billiards table, polished wood-block dancing floor and finely equipped snack-bar being among the attractions. The Club runs a cricket team, and special social evenings and dances are held periodically.

PATENTS

Sound Deadening Structure. No. 2,001,733. Granted on May 21st to Geo. D. Kellogg, Pelham Manor. N. Y., assignor to Johns-Manville Corporation, New York City. Application January 2, 1932. Serial No. 584,446.

Described as a sound-deadening roof comprising in combination a supporting sub-structure, a metal deck in the form of sections provided each with a plurality of imperforate integral

beams, flat portions of said deck, intermediate the beams, provided with a multiplicity of perforations adapted to admit incident sound, relatively effective sound-deadening material maintained in position above the perforations and between the beams, and a layer of thermal insulating material placed above the sound-deadening material and adapted to maintain the sound-deadening material in effective condition.

Sealing Compound for Pneumatic Tires. No. 2,003,112. Granted on June 4th to Hartly French and William Frederick Welbeloved, Toronto, Ont., Canada, assignors to Christopher William Chant, Toronto. Application April 3, 1934. Serial No. 719,808. In Canada January 29, 1931.

Described as a tire sealing composition, including finely comminuted asbestos intimately associated with a substantially less amount of powdered magnesia and mixed with a dilute solution of water containing glucose, a substantial percentage of calcium chloride, and a much smaller percentage of an alkali; all combined in proportion insuring hydration of a substantial part of the magnesia and a paste-like consistency for the composition.

Magnesia Carbonate. No. 2,003,208. Granted on May 28th to Walter Hoge MacIntire, Knoxville, Tenn., assignor to American Zinc Lead & Smelting Co., St. Louis., Mo., a corporation of Maine. Application July 12, 1932. Serial No. 622,169.

Described as a process for making magnesia carbonate which consists in suspending magnesium oxide in water, adding ammonia gas to the suspension, then continuously adding carbon dioxide thereto and continuing the addition of carbon dioxide until the mix begins to thicken, the quantity of ammonia being approximately 10% by weight of the magnesia oxide.

Light Weight Article. No. 2,003,309. Granted on June 4th to Edward R. Powell, Alexandria, Ind., assignor to Johns-Manville Corporation, New York City. Application December 13, 1932. Serial No. 646,961.

Described as in making an article comprising ceramically arranged fibres the method which includes forming an aqueous mixture of heat resistant fibres with a binder, containing clay, shaping the mixture, removing water therefrom and then firing the product at a temperature adapted to cause vitrification of the binder but below the temperature of slagging of the fibres.

Light Weight Ceramic Article. No. 2,003,319. Granted on June 4th to Bailey Townsend, Westfield, N. J., assignor to Johns-Manville, New York. Application December 13, 1932. Serial No. 646,962.

Described as in making a ceramic product provided with voids partly filled with fibrous material, the method which comprises treating heat resistant fibres with a water repellent material to render the fibres water resistant, making a plastic mixture of treated fibres, clay and water and shaping, drying and firing the mixture to develop a ceramic bond with preservation of the shape of approximately the original fibres.

ASBESTOS

Thermo-Nonconducting Water Repellent Packing Material. No. 2,003,335. Granted on June 4th to Carl A. Black, Cleveland Heights, Ohio, assignor to The Ric-wiL Company, Cleveland, Ohio, a corporation of Ohio. Application August 12, 1927. Serial No. 212,604.

Described as a thermo-non-conducting packing material comprising a mass of non-adhering, loosely associated asbestos fibres which have been treated with a soap of a bivalvent metal to render them water repellent.

Underground Conduit Construction. No. 2,003,580. Granted on June 4th to Magruder Craighead, Greenburgh, N. Y. Application March 30, 1933. Serial No. 663,569.

Described as in a conduit construction a series of underdrain sections, a series of support members separable from and resting on said underdrain sections, a conduit comprising top sections and a series of approximately semi-circular lower sections carried by said support members and so connected with said support members that said conduit sections are located in pre-determined angular relation to said underdrain sections, a series of roll frames fitting within said conduit sections and means whereby said roll frames are held in pre-determined angular relation relative to said conduit sections and thereby are held in pre-determined angular relation relative to said underdrain sections.

TRADE MARKS

This information is supplied by the National Trade Mark Co., Munsey Bldg., Washington, D. C., who will conduct free of charge an advance search on any trade mark our readers may contemplate adopting.

Spraybestos. Serial No. 363,353. Keasbey & Mattison Co., Ambler, Pa. Filed March 22, 1935. For Asbestos Product supplied in loose, granulated, and powdered form for insulating purposes, thermal insulation, Hot and Cold Insulation, fireproofing and sound deadening. Passed on June 4th.

Bison. Serial No. 363,447. The Beldam Packing & Rubber Co., Ltd., London, England. Filed April 6, 1935. For Engine and Machinery Packings Made of Asbestos and/or Canvas with Rubber and/or Metal, used for preventing the escape of steam or other fluid or vapor between the working parts, and for inserting between stationary joints.

Sceptre. Serial No. 363,449. The Beldam Packing & Rubber Co., Ltd., London, England. Filed April 6, 1935. For engine and machinery packings made of asbestos and/or canvas with rubber and/or metal, used for preventing the escape of steam or other fluid or vapor between the working parts, and for inserting between stationary joints.

THIS AND THAT

It seems rather smart of the Asbestos Industry to get their Voluntary Code into Washington second on the list. Asphalt roofing was the first.

This number of "ASBESTOS" begins our *seventeenth* year. We take this opportunity to thank those who have helped to make the magazine more interesting and especially those who have encouraged us in the service we are trying to give to the Asbestos Industry. May we have the same co-operation and even more, for the next seventeen years!

On the average a building fire occurs somewhere in the United States every minute. Every day about twenty people die from fire; every day a million dollars worth of property is destroyed by fire. What an opportunity for asbestos and asbestos materials!

"Deposits of acid resisting asbestos, which has heretofore been imported by the U. S. S. R. from Rhodesia, South Africa, have been found in the Urals, according to information from the Institute of Mineral Resources in Moscow, which sends prospecting parties to various parts of the Soviet Union, and aids in the establishment of new branches of mining industries. This discovery, it is anticipated, will make it possible for the USSR to crease importing this type of asbestos, and may also place the country in a position to export acid-resisting asbestos to European countries." So reads a dispatch direct from Moscow.

A recent number of "ASBESTOS" described electrical heating for sidewalks. Now we read of a prediction by a Detroit advertising man to the effect that by 1960 highways in the United States will be similarly heated and the ice and snow melted by the turn of an electric switch. This is just one of the potential markets for asbestos.

Ruberoid National Advertising Helps Sell Asbestos Pipe Coverings

SUPPLYING jobbers and contractors with advertising inquiries is only one part of the Ruberoid-Watson program of stepping up sales and profits of Asbestos Insulation. Get the complete story.

Some lucrative territories are still open for aggressive asbestos contractors and distributors.

The RUBEROID Co.

500 Fifth Avenue, New York, N. Y.

STANDARD

HAIR FELT

INSULATION

as EHRET makes it—has a wide range of usefulness

EHRET'S Standard Hair Felt Insulation is ideally suited for temperatures ranging from 60° below zero to 100° F. Its wide range of uses include insulation of cold water pipes, and for protection of pipes against freezing—insulating refrigerators and refrigerator cars, tanks, steel passenger and tank cars, etc.

The Standard grade of Hair Felt is made of 100% pure brown cattle hair, by the platen process, and is unusually efficient, particularly at sub-zero temperatures, due to the close felting of cattle hairs. It offers excellent protection against moisture-laden air which might disintegrate other insulating materials by condensation.

#1000 is made by punching process, of 100% pure cattle hair—and #6040 is a mixture of cattle hair and jute. A SOUND CORRECTION HAIR FELT is also made of goat hair and asbestos fibre for acoustical work.

Ehret distributors offer a complete service to industry with a full line of Insulations, Packings, Refractories and Cements. Several lucrative territories are available at present. Write for further details.

EHRET

MAGNESIA MANUFACTURING CO

Executive Offices and Factories at

VALLEY FORGE, PENNA.

Insulations *Packings*
Refractories *Asbestos Textiles*

Game Fish Swim Up Stream

It's easy to drift as the current flows;
It's easy to move as the deep tide goes;
But the answer comes when the breakers crash
And strike the soul with a bitter lash—
When the goal ahead is endless fight
Through a sunless day and a starless night,
Where the far call breaks on the sleeper's dream,
"Only the game fish swims up stream."

The spirit wanes where it knows no load;
The soul turns soft down the Easy Road;
There's fun enough in the thrill and throb,
But Life in the main is an uphill job;
And it's better so, where the softer game
Leaves too much fat on a weakened frame,
Where the far call breaks on the sleeper's dream,
"Only the game fish swims up stream."

When the clouds bank in—and the soul turns blue—
When Fate holds fast, and you can't break through—
When trouble sweeps like a tidal wave,
And Hope is a ghost by an open grave,
You have reached the test in a frame of mind
Where only the quitters fall behind,
Where the far call breaks on the sleeper's dream,
"Only the game fish swims up stream."

—Author Unknown.